

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Herbert R. Campbell

GENERAL INFORMATION:

Name:	Owensboro Municipal Utilities
Address:	4301 U. S. 60 East, Owensboro, KY 42302
Date application received:	March 31, 2004
SIC/Source description:	4911/electric power generation
Source ID #:	21-059-00027
Source A.I. #:	942
Activity #:	APE20040001
Permit number:	V-04-050

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☒ Acid rain source

☐ Source subject to 112(r)

☐ Source applied for federally enforceable emissions cap

☐ Source provided terms for alternative operating scenarios

☐ Source subject to a MACT standard

☐ Source requested case-by-case 112(g) or (j) determination

☐ Application proposes new control technology

☒ Certified by responsible official

☒ Diagrams or drawings included

☐ Confidential business information (CBI) submitted in application

☐ Pollution Prevention Measures

☐ Area is non-attainment (list pollutants):

☒ Compliance Assurance Monitoring (CAM) Plan included in renewal application.

EMISSIONS SUMMARY:

Pollutant	Actual (tpy) **	Potential (tpy)
PM/PM ₁₀	816/221	1750/429
SO ₂	5015.7	17209
NO _x	10386	6908
CO	312.7	432
VOC	68.9	95

** Actual based on current EIS reported values.

SOURCE PROCESS DESCRIPTION:

The source is an electric power generating plant that has two coal-fired boilers and a heating boiler. In addition, ash, coal and limestone related equipment are utilized. The coal-fired boilers have input ratings of 1507 mmBtu/hr (EU 01) and 2566 mmBtu/hr (EU 02). EU 01 is a Babcock & Wilcox cyclone furnace boiler, and EU 02 a Combustion Engineering tangentially fired steam boiler. EU 01 is equipped with overfired air (OFA), electrostatic precipitator (ESP), selective catalytic reduction (SCR) and flue gas desulfurization (FGD) and EU 02 is equipped with low NO_x burners and separated overfire air (LNB/SOFA), electrostatic precipitator (ESP), selective non-catalytic reduction (SNCR) and flue gas desulfurization (FGD).

EMISSION AND OPERATING CAPS DESCRIPTION:

Natural gas burners were added as minor modification to EU 02, for additional heat input capability of 780 mmBtu/hr for loss of one pulverizer mill for the unit when a pulverizer mill was out of service in [high year] 2000. This was done to avoid future losses in capacity due to pulverizer outages and to maintain the 23533 MWh (mega watt-hours) capacity.

OPERATING LIMITATION:

Natural gas may only be fired when one coal pulverizer is out of service. The natural gas shall not run concurrently with the pulverizer, and there will be no increase in heat input rate to the Unit. The amount of natural gas combusted shall be limited to 221 MMSCF to recover the lost heat input from pulverizer mill outages.